

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/007,700

DATE: 12/18/2001
TIME: 16:18:48

Input Set : A:\455c17.app.txt
Output Set: N:\CRF3\12182001\J007700.raw

ENTERED

```

4 <110> APPLICANT: Wang, Tongtong
5     Wang, Aijun
6     Skeiky, Yasir A.W.
7     Li, Samual X.
8     Kalos, Michael D.
9     Henderson, Robert A.
10    McNeill, Patricia D.
11    Fanger, Neil
12    Retter, Marc W.
13    Durham, Margarita
14    Fanger, Gary R.
15    Vedvick, Thomas S.
16    Carter, Darrick
17    Watanabe, Yoshihiro
18    Peckman, David W.
19    Cai, Feng
20    Foy, Teresa M.
24 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
25    AND DIAGNOSIS OF LUNG CANCER
28 <130> FILE REFERENCE: 210121.455C17
C--> 30 <140> CURRENT APPLICATION NUMBER: US/10/007,700
31 <141> CURRENT FILING DATE: 2001-11-30
33 <160> NUMBER OF SEQ ID NOS: 469
35 <170> SOFTWARE: FastSEQ for Windows Version 4.0
37 <210> SEQ ID NO: 1
38 <211> LENGTH: 315
39 <212> TYPE: DNA
40 <213> ORGANISM: Homo sapiens
42 <220> FEATURE:
43 <221> NAME/KEY: misc_feature
44 <222> LOCATION: 236, 241
45 <223> OTHER INFORMATION: n = A,T,C or G
47 <400> SEQUENCE: 1
48 gcagagacag actggtggtt gaacctggag gtgccaaaaa agccagctgc gggcccagga 60
49 cagctgccgt gagactcccg atgtcacagg cagtctgtgt gggttacagcg cccctcagtg 120
50 ttcatctcca gcagagacaa cggaggaggc tccaccagg acggttctca ttatttatat 180
W--> 51 gttaatatgt ttgtaaactc atgtacagtt ttttttgggg gggaagcaat gggaanggta 240
W--> 52 naaattacaa atagaatcat ttgctgtaat ccttaaatgg caaacggtca ggccacgtga 300
53 aaaaaaaaaa aaaaaa 315
55 <210> SEQ ID NO: 2
56 <211> LENGTH: 380
57 <212> TYPE: DNA
58 <213> ORGANISM: Homo sapiens
60 <400> SEQUENCE: 2
61 atttaggctt aagatthttgt ttacccttgt tactaaggag caaattagta ttaaagtata 60
62 atatatataa acaaatacaa aaagttttga gtggttcagc ttttttattht tttttaatgg 120
63 cataacttht aacaacactg ctctgtaatg gtttgaactg tggtactcag actgagataa 180

```

RAW SEQUENCE LISTING

DATE: 12/18/2001

PATENT APPLICATION: US/10/007,700

TIME: 16:18:48

Input Set : A:\455c17.app.txt

Output Set: N:\CRF3\12182001\J007700.raw

```

64 ctgaaatgag tggatgtata gtgttattgc ataattatcc cactatgaag caaagggact 240
65 ggataaattc ccagtctaga ttattagcct ttgttaacca tcaagcacct agaagaagaa 300
66 ttattggaaa ttttgcctc tgtaactggc actttgggggt gtgacttatac ttttgccttt 360
67 gtaaaaaaaaa aaaaaaaaaa 380
69 <210> SEQ ID NO: 3
70 <211> LENGTH: 346
71 <212> TYPE: DNA
72 <213> ORGANISM: Homo sapiens
74 <220> FEATURE:
75 <221> NAME/KEY: misc_feature
76 <222> LOCATION: 316, 317, 318, 322, 323, 326, 329, 330, 331, 336, 337, 339,
77 340, 342, 343
78 <223> OTHER INFORMATION: n = A,T,C or G
80 <400> SEQUENCE: 3
81 ttgtaagtat acaatttttag aaaggattaa atgttattga tcatttttact gaatactgca 60
82 catcctcacc atacaccatc cactttccaa taacatttaa tcctttctaa aattgtaagt 120
83 atacaattgt actttctttg gattttcata acaaataac catagactgt taattttatt 180
84 gaagtttctt taatggaatg agtcattttt gtcttggtgt tttgagggtta cctttgcttt 240
85 gacttccaac aatttgatca tatagtgttg agctgtggaa atctttaagt ttattctata 300
W--> 86 gcaataattt ctattnnnag annccngggn naaaannann annaaa 346
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 372
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapiens
93 <220> FEATURE:
94 <221> NAME/KEY: misc_feature
95 <222> LOCATION: 297, 306, 332
96 <223> OTHER INFORMATION: n = A,T,C or G
98 <400> SEQUENCE: 4
99 actagtctca ttactccaga attatgctct tgtacctgtg tggtctgggtt tcttagtcgt 60
100 tggtttgggt tggttttttg aactgggtat taggggtggt cacagttcta atgtaagcac 120
101 tctcttctcc aagttgtgct ttgtggggac aatcattctt tgaacattag agaggaggc 180
102 agttcaagct gttgaaaaga ctattgctta tttttgtttt taaagacctt cttgacgtca 240
W--> 103 tgtggacagt gcacgtgctt tacgtacat cttgttttct aggaagaagg ggatgcnggg 300
W--> 104 aaggantggg tgctttgtga tggataaaac gnctaaataa cacaccttta cattttgaaa 360
105 aaacaaaac aa 372
107 <210> SEQ ID NO: 5
108 <211> LENGTH: 698
109 <212> TYPE: DNA
110 <213> ORGANISM: Homo sapiens
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: 8, 345, 422, 430, 433, 436, 438, 472, 481, 486, 515, 521,
115 536, 549, 553, 556, 557, 559, 568, 593, 597, 605, 611, 613,
116 616, 618, 620, 628, 630, 632, 634, 635, 639, 643, 647, 648,
117 649, 652, 654, 658, 664, 690
118 <223> OTHER INFORMATION: n = A,T,C or G
120 <400> SEQUENCE: 5
W--> 121 actagtanga tagaaacact gtgtcccgag agtaaggaga gaagctacta ttgattagag 60

```

RAW SEQUENCE LISTING DATE: 12/18/2001
 PATENT APPLICATION: US/10/007,700 TIME: 16:18:48

Input Set : A:\455c17.app.txt
 Output Set: N:\CRF3\12182001\J007700.raw

```

122 cctaaccag gttaaactgca agaagaggcg ggataactttc agctttccat gtaactgtat 120
123 gcataaagcc aatgtagtcc agttttctaag atcatgttcc aagctaaactg aatcccactt 180
124 caatacacac tcatgaactc ctgatggaac aataacagc ccaagcctgt ggtatgatgt 240
125 gcacacttgc tagactcaga aaaaatacta ctctcataaa tgggtgggag tattttgggt 300
W--> 126 gacaacctac tttgcttggc tgagtgaagg aatgatattc atatnttcat ttattccatg 360
127 gacatttagt tagtgctttt tatataccag gcatgatgct gagtgacact cttgtgtata 420
W--> 128 tntccaaatn ttngtncngt cgctgcacat atctgaaatc ctatattaag antttcccaa 480
W--> 129 natgangtcc ctgggttttc cagccactt gatcngtcaa ngatctcacc tctgtntgtc 540
W--> 130 ctaaaacctn ctncnnnang gttagacngg acctctcttc tcccttcccg aanaatnaag 600
W--> 131 tgtgngaaga nanccnncn ccccccctncn tncnnccctng ccngctnnnc cncntgtngg 660
W--> 132 gggngccgcc cccgcggggg gacccccccn ttttcccc 698
134 <210> SEQ ID NO: 6
135 <211> LENGTH: 740
136 <212> TYPE: DNA
137 <213> ORGANISM: Homo sapiens
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <222> LOCATION: 82, 406, 426, 434, 462, 536, 551, 558, 563, 567, 582, 584,
142 592, 638, 651, 660, 664, 673, 675, 697, 706, 711, 715, 716,
143 717, 723, 724, 725, 733
144 <223> OTHER INFORMATION: n = A,T,C or G
146 <400> SEQUENCE: 6
147 actagtcaaa aatgctaaaa taatttggga gaaaatattt ttttaagtagt gttatagttt 60
W--> 148 catgtttatc ttttattatg tnttgtgaag ttgtgtcttt tcaactaatta cctatactat 120
149 gccaatattt ccttatactt atccataaca ttatactac atttgaaga gaatatgcac 180
150 gtgaaactta acactttata aggtaaaaat gaggtttcca agatttaata atctgatcaa 240
151 gttcttggtt tttccaaata gaatggactt ggtctgttaa ggggctaagg gagaagaaga 300
152 agataagggt aaaagtgtt aatgaccaa cttctaaaa gaaatgcaaa aaaaaattta 360
W--> 153 ttttcaagcc ttcgaactat ttaaggaaag caaaatcatt tcctanatgc atatcatttg 420
W--> 154 tgagantttc tcantaatat cctgaatcat tcatttcagc tnaggettca tgttgactcg 480
W--> 155 atatgtcatc tagggaaagt ctatttcatg gtccaaacct gttgccatag ttggnaggc 540
W--> 156 tttccttta ntgtgaanta ttnacangaa atttctctt tnanagttct tnatagggtt 600
W--> 157 aggggtgtgg gaaaagcttc taacaatctg tagtgttncg tgttatctgt ncagaaccan 660
W--> 158 aatnacggat cgnangaagg actgggtcta tttacangaa cgaatnatct ngttnnntgt 720
W--> 159 gtnnncaact ccngggagcc 740
161 <210> SEQ ID NO: 7
162 <211> LENGTH: 670
163 <212> TYPE: DNA
164 <213> ORGANISM: Homo sapiens
166 <220> FEATURE:
167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: 265, 268, 457, 470, 485, 546, 553, 566, 590, 596, 613, 624,
169 639, 653, 659, 661
170 <223> OTHER INFORMATION: n = A,T,C or G
172 <400> SEQUENCE: 7
173 gctggggagc tcggcatggc ggtccccgct gcagccatgg ggcctcggc gttgggccag 60
174 agcgcccccg gctcgatggc cccgtggtgc tcagtgaagc gcggcccgtc gcgctacgtg 120
175 cttgggatgc aggagctgtt ccggggccac agcaagaccg cgagttcctg gcgcacagcg 180
176 ccaaggtgca ctcggtggcc tggagttgcy acgggcgtcg cctacctcg ggtcttcgac 240

```

RAW SEQUENCE LISTING

DATE: 12/18/2001

PATENT APPLICATION: US/10/007,700

TIME: 16:18:48

Input Set : A:\455c17.app.txt

Output Set: N:\CRF3\12182001\J007700.raw

```

W--> 177 aagacgccac gtcttcttgc tgganaanga ccgttggtca aagaaaacaa ttatcgggga 300
      178 catggggata gtgtggacca ctttgttggc atccaagtaa tcctgacctt tttgttacgg 360
      179 cgtctggaga taaaaccatt cgcactctggg atgtgaggac tacaaaatgc attgccactg 420
W--> 180 tgaacactaa aggggagaac attaatatct gctggantcc tgatgggcan accattgctg 480
W--> 181 tagcnacaag gatgatgttg tgactttatt gatgccaaga aaccccggtc caaagcaaaa 540
W--> 182 aaacanttcc aanttcgaag tcaccnaaat ctcttggaac aatgaacatn aatatnttct 600
W--> 183 tcctgacaat ggnccctggg tgtntcacat cctcagctnc cccaaaactg aancctgtnc 660
W--> 184 natccacccc                                     670
      186 <210> SEQ ID NO: 8
      187 <211> LENGTH: 689
      188 <212> TYPE: DNA
      189 <213> ORGANISM: Homo sapiens
      191 <220> FEATURE:
      192 <221> NAME/KEY: misc_feature
      193 <222> LOCATION: 253, 335, 410, 428, 448, 458, 466, 479, 480, 482, 483, 485,
      194      488, 491, 492, 495, 499, 500, 502, 503, 512, 516, 524, 525,
      195      526, 527, 530, 540, 546, 550, 581, 593, 594, 601, 606, 609,
      196      610, 620, 621, 622, 628, 641, 646, 656, 673
      197 <223> OTHER INFORMATION: n = A,T,C or G
      199 <400> SEQUENCE: 8
      200 actagtatct aggaatgaac agtaaaagag gagcagttgg ctacttgatt acaacagagt 60
      201 aaatgaagta ctggatttgg gaaaacctgg ttttattaga acatatggaa tgaaagccta 120
      202 cacctagcat tgcctactta gcccctgaa ttaacagagc ccaattgaga caaacccctg 180
      203 gcaacaggaa attcaaggga gaaaaagtaa gcaacttggg ctaggatgag ctgactccct 240
W--> 204 tagagcaaag ganagacagc cccattacc aaataccatt tttgcctggg gcttgtgcag 300
W--> 205 ctggcagtggt tcctgcccc gcatggcacc ttatngtttt gatagcaact tcgttggaatt 360
W--> 206 ttcaccaact tattacttga aattataata tagcctgtcc gtttgctgtg tccaggctgt 420
W--> 207 gatatatntt cctagtgggt tgacttttaa aataaatnag gtttantttt ctccccccnn 480
W--> 208 cnntnctncc nntcnctenn cnntcccccc cncctngtcc tccnnnnntn gggggggccn 540
W--> 209 ccccnccggn ggacccccct ttgggtccctt agtggagggt natggcccc ggnnttatcc 600
W--> 210 nggcctann ttccccgtn nnaaatgntt cccctccca ntcnccac ctcaanccgg 660
W--> 211 aagcctaagt ttntaccctg ggggtccccc                                     689
      213 <210> SEQ ID NO: 9
      214 <211> LENGTH: 674
      215 <212> TYPE: DNA
      216 <213> ORGANISM: Homo sapiens
      218 <220> FEATURE:
      219 <221> NAME/KEY: misc_feature
      220 <222> LOCATION: 602, 632, 639, 668
      221 <223> OTHER INFORMATION: n = A,T,C or G
      223 <400> SEQUENCE: 9
      224 gtccactctc ctttgagtgt actgtcttac tgtgcactct gtttttcaac tttctagata 60
      225 taaaaaatgc ttgttctata gtggagtaag agctcacaca cccaaggcag caagataact 120
      226 gaaaaaagcg aggccttttt gccaccttgg taaaggccag ttcactgcta tagaactgct 180
      227 ataagcctga agggaagtag ctatgagact ttccattttt cttagtcttc ccaataggct 240
      228 ccttcattga aaaaggcttc ctgtaataat tttcacctaa tgaattagca gtgtgattat 300
      229 ttctgaaata agagacaaat tgggcccagc agtcttcctg tgatttaaaa taaacaaccc 360
      230 aaagttttgt ttggtcttca ccaaaggaca tactctaggg ggtatgttgt tgaagacatt 420
      231 caaaaacatt agctgttctg tctttcaatt tcaagttatt ttggagactg cctccatgtg 480

```

RAW SEQUENCE LISTING

DATE: 12/18/2001

PATENT APPLICATION: US/10/007,700

TIME: 16:18:48

Input Set : A:\455c17.app.txt

Output Set: N:\CRF3\12182001\J007700.raw

```

232 agttaattac tttgctctgg aactagcatt attgtcatta tcatcacatt ctgtcatcat 540
233 catctgaata atattgtgga tttccccctc tgcttgcatc ttcttttgac tcctctggga 600
W--> 234 anaaatgtca aaaaaaaagg tcgatctact cngcaaggnc catctaataca ctgcgctgga 660
W--> 235 aggaccnct gcc 674
237 <210> SEQ ID NO: 10
238 <211> LENGTH: 346
239 <212> TYPE: DNA
240 <213> ORGANISM: Homo sapiens
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: 320, 321, 322, 325, 326, 328, 329, 330, 332, 333, 334, 335,
245 342
246 <223> OTHER INFORMATION: n = A,T,C or G
248 <400> SEQUENCE: 10
249 actagtctgc tgatagaaag cactatacat cctattgttt ctttctttcc aaaatcagcc 60
250 ttctgtctgt aacaaaaatg tactttatag agatggagga aaaggtctaa tactacatag 120
251 ccttaagtgt ttctgtcatt gttcaagtgt attttctgta acagaaacat atttggaatg 180
252 tttttctttt ccccttataa attgtaattc ctgaaatact gctgctttaa aaagtccac 240
253 tgtcagatta tattatctaa caattgaata ttgtaaatat acttgtctta cctctcaata 300
W--> 254 aaagggtact tttctattan nnagnngnnn gnnnnataaa anaaaa 346
256 <210> SEQ ID NO: 11
257 <211> LENGTH: 602
258 <212> TYPE: DNA
259 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 11
262 actagtaaaa agcagcattg ccaaataatc cctaattttc cactaaaaat ataatgaaat 60
263 gatgttaagc tttttgaaaa gttaggtta aacctactgt tgtagatta atgtatttgt 120
264 tgcttccctt tatctggaat gtggcattag cttttttatt ttaacctct ttaattctta 180
265 ttcaattcca tgacttaagg ttggagagct aaacactggg atttttggat aacagactga 240
266 cagttttgca taattataat cggcattgta catagaaagg atatggctac cttttgttaa 300
267 atctgcactt tctaaatata aaaaaaggga aatgaagtta taaatcaatt tttgtataat 360
268 ctgtttgaaa catgagtttt atttgcttaa tattagggtc ttgcccttt tctgtaagtc 420
269 tcttgggata ctgtgtagaa ctgttctcat taaacaccaa acagttaagt ccattctctg 480
270 gtactagcta caaatcgggt ttcatattct acttaacaat ttaaataaac tgaaatat 540
271 ctgatgggtc tacttctgtt catataaaaa caaaacttga tttccaaaaa aaaaaaaaaa 600
272 aa 602
274 <210> SEQ ID NO: 12
275 <211> LENGTH: 685
276 <212> TYPE: DNA
277 <213> ORGANISM: Homo sapiens
279 <220> FEATURE:
280 <221> NAME/KEY: misc_feature
281 <222> LOCATION: 170, 279, 318, 321, 322, 422, 450, 453, 459, 467, 468, 470,
282 473, 475, 482, 485, 486, 491, 498, 503, 506, 509, 522, 526,
283 527, 528, 538, 542, 544, 551, 567, 568, 569, 574, 576, 582,
284 587, 588, 589, 590, 592, 593, 598, 599, 603, 605, 608
285 <223> OTHER INFORMATION: n = A,T,C or G
287 <221> NAME/KEY: misc_feature
288 <222> LOCATION: 633, 634, 635, 644, 646, 648, 651, 655, 660, 662, 663, 672,

```

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 12/18/2001

PATENT APPLICATION: US/10/007,700

TIME: 16:18:49

Input Set : A:\455c17.app.txt

Output Set: N:\CRF3\12182001\J007700.raw

L:30 M:270 C: Current Application Number differs, Wrong Format

L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/007,700

DATE: 12/18/2001

TIME: 16:18:49

Input Set : A:\455c17.app.txt

Output Set: N:\CRF3\12182001\J007700.raw

L:328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14